

holder which is adjacent the tool when the tool is attached to the tool holder, there being a respective switch element actuatable in response to movement of each of the rods.

2. (Currently amended) A tool holder arrangement according to Claim 1, wherein the sensor arrangement is operable to sense at least one feature present on a tool of the plurality of tools in the form of a projection on the tool.

3. (Canceled).

4. (Canceled).

5. (Currently amended) A tool holder arrangement according to Claim 4 1, wherein each rod is resiliently biased to an initial position by means of a spring.

6. (Currently amended) A tool holder arrangement according to Claim 4 1, wherein the rods are evenly angularly spaced about the circumference of a ~~notional~~ circle.

7. (Canceled).

8. (Canceled).

9. (Canceled).

10. (Currently amended) A tool holder arrangement according to Claim 1, wherein the tool holder incorporates a connector element to which the tool may be mounted, the connector element being comprised of or mounted on an element of insulating material.

11. (Currently amended) A tool holder arrangement according to Claim 1 wherein the sensor arrangement is operable to sense two of said features on a tool.

12. (Currently amended) A tool holder arrangement according to Claim 11, wherein the processor is adapted to generate an alarm signal if only one said feature on a tool is detected.

13. (Currently amended) A tool holder according Claim 1, further comprising at least one tool of said plurality of tools.

14. (Currently amended) A tool holder according to Claim 13 ~~wherein the sensor arrangement further comprises a plurality of axially moveable rods extending to a face of the tool holder which is adjacent to the tool when the tool is attached to the tool holder, there being a respective switch element actuatable in response to movement of each of the rods,~~ wherein the tool is provided with two projecting elements positioned to be co-aligned with two of said rods.

15. (Canceled).

16. (Canceled).

17. (Currently amended) A tool holder arrangement comprising:

a tool holder to be mounted on a support and allowing removable attachment thereto of any one of a plurality of tools;

a sensor arrangement operable to sense two features present on a one of said tools when attached to the tool holder, the features being unique to a specific one of said tools; and

a processor operable to identify uniquely, from the sensed features, the type of tool attached to the tool holder,

wherein the tool holder and the sensor arrangement are such that the tool is electrically isolated from the support when the tool is attached to the tool holder;

wherein the sensor arrangement includes a plurality of rods, each having a longitudinal axis and being axially movable relative the support and the tool holder, extending to a face of the tool holder which is adjacent the tool when the tool is attached to the tool holder, there being a respective switch element actuatable in response to movement of each of the rods.

18. (Currently amended) A robot comprising a tool holder arrangement according Claim 1 ~~comprising a robot~~.

19. (New) A tool holder arrangement according to Claim 17, wherein the sensor arrangement is operable to sense at least one feature present on a tool of the plurality of tools in the form of a projection on the tool.

20. (New) A tool holder arrangement according to Claim 17, wherein each rod is resiliently biased to an initial position by means of a spring.

21. (New) A tool holder arrangement according to Claim 17, wherein the rods are evenly angularly spaced about the circumference of a notional circle.

22. (New) A tool holder arrangement according to Claim 17, wherein the tool holder incorporates a connector element to which the tool may be mounted, the connector element being comprised of or mounted on an element of insulating material.

23. (New) A tool holder arrangement according to Claim 17, wherein the processor is adapted to generate an alarm signal if a combination of two or more switch elements are actuated which do not correspond to an individual tool.

24. (New) A tool holder according Claim 17, further comprising at least one tool of said plurality of tools.

25. (New) A tool holder according to Claim 17, wherein the tool is provided with two projecting elements positioned to be co-aligned with two of said rods.